

Name\_\_\_\_\_

Date\_\_\_\_\_

### 201 Radian Practice

Rewrite each degree measure in radians and each radian measure in degrees.

1.  $120^\circ$

2.  $-15^\circ$

3.  $-225^\circ$

4.  $\frac{5\pi}{6}$

5.  $\frac{79\pi}{90}$

6.  $\frac{-\pi}{4}$

Convert to degrees, minutes, and seconds. Round to the nearest second.

7.  $35.61^\circ$

8.  $14.27^\circ$

9.  $18.05^\circ$

Convert to decimal degrees, round to the nearest tenth.

10.  $12^\circ 6' 32''$

11.  $80^\circ 10' 5''$

12.  $112^\circ 42' 19''$

# 10-8 Skills Practice

## Equations of Circles

Write an equation for each circle.

1. center at origin,  $r = 6$

2. center at  $(0, 0)$ ,  $r = 2$

3. center at  $(4, 3)$ ,  $r = 9$

4. center at  $(7, 1)$ ,  $d = 24$

5. center at  $(-5, 2)$ ,  $r = 4$

6. center at  $(6, -8)$ ,  $d = 10$

7. a circle with center at  $(8, 4)$  and a radius with endpoint  $(0, 4)$

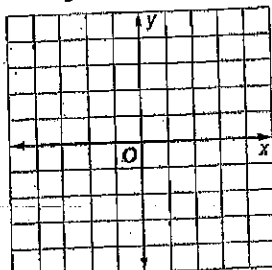
8. a circle with center at  $(-2, -7)$  and a radius with endpoint  $(0, 7)$

9. a circle with center at  $(-3, 9)$  and a radius with endpoint  $(1, 9)$

10. a circle whose diameter has endpoints  $(-3, 0)$  and  $(3, 0)$

Graph each equation.

11.  $x^2 + y^2 = 16$



12.  $(x - 1)^2 + (y - 4)^2 = 9$

